# 20S Proteasome Assay Kit

**Cat. No.** Kit-0722 **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | 20S Proteasome Assay Kit is a fluorescence-based method for assaying the activity of 20S proteasome. |
| **Description** | The proteasome is a multicatalytic proteinase complex that is involved in the selective degradation of intracellular proteins. The 20S proteasome is the proteolytic core particle of a large protein degradation complex, the 26S proteasome. This 700 kDa protein is ubiquitously distributed in both the cytoplasm and the nucleus in all eukaryotes.The protein is responsible for degrading many cell-cycle control factors, signal transduction factors, transcription factors, and oncogene and anti-oncogene products, thus controlling cell proliferation, differentiation, and apoptosis. Changes in expression of the 20S proteasome have been documented in a number of physiological and pathological conditions such as skeletal muscle atrophy and Alzheimer neurodegeneration. Ethanol inhibits proteasome activity, resulting in the accumulation of insoluble protein aggregates known as Mallory bodies, a common signature of alcoholic liver diseases. On the other hand, proteosome inhibitors exhibit anti-inflammatory and antiproliferative effects, evidence that the proteosome may be an important drug target for the treatment for cancer and inflammatory diseases. |
| **Usage** | For research use only (RUO) |
| **Storage** | Kit will arrive packaged as a -80°C kit. For best results, remove components and store as stated below.Item Storage20S Proteasome Positive Control -80°C20S Proteasome Substrate (SUC-LLVY-AMC) -20°CCell-Based Assay Epigallocatechin Gallate (EGCG) -20°C20S Proteasome Assay Buffer Room Temperature20S |

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| | Proteasome Lysis Buffer Room Temperature96-Well Solid Plate (black) with lid Room Temperature |
| **Kit Components** | 20S Proteasome Positive Control 1 vial20S Proteasome Substrate (SUC-LLVY-AMC) 1 vialCell-Based Assay Epigallocatechin Gallate (EGCG) 1 vial20S Proteasome Assay Buffer 1 vial20S Proteasome Lysis Buffer 1 vial96-Well Solid Plate (black) with lid 1 plate |

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